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JAPANESE PATENT ABSTRACT

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REFERENCE AN

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TI -MAGNETIC POWDER FOR MAGNETIC RECORDING MEDIUM,
MAGNETIC CARD USING MAGNETIC POWDER, AND
MANUFACTURE OF MAGNETIC CARD

AB -PROBLEM TO BE SOLVED: To increase a coercive
force and obtain excellent dispersion in
magnetic coating by hydrogenating magnetic
powder comprising rare earth elements,
including Y which is expressed by a specific
expression and includes Sm as its essential
component, and a transition metal including
the main component of Co, within a specific
temperature range, before the coating is
formed by using the magnetic powder.

-SOLUTION: The magnetic powder is expressed by
Rx T100-x-y My (R designates at least one
element selected from rare earth elements
including Y which includes Sm as its essential
component, T designates at least one element
selected from a transition metals Fe, Co, Ni
including Co as its main component, and M
designates at least one of Si, Ti, Al, Ga, V,
Cr, Mn, Cu, Zr, Nb, Mo, Pd, Hf, Ta, W, Pt and
Au. The composition value x of R is 16.0-22.0
(at%), the composition value y of M is
 $0 \leq y < 30.0$ (at%)). Before the coating is formed
by using the magnetic powder, the magnetic
powder is hydrogenated within a temperature
range from the liquid nitrogen temperature to
200 deg.C.

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